

generated January 2025

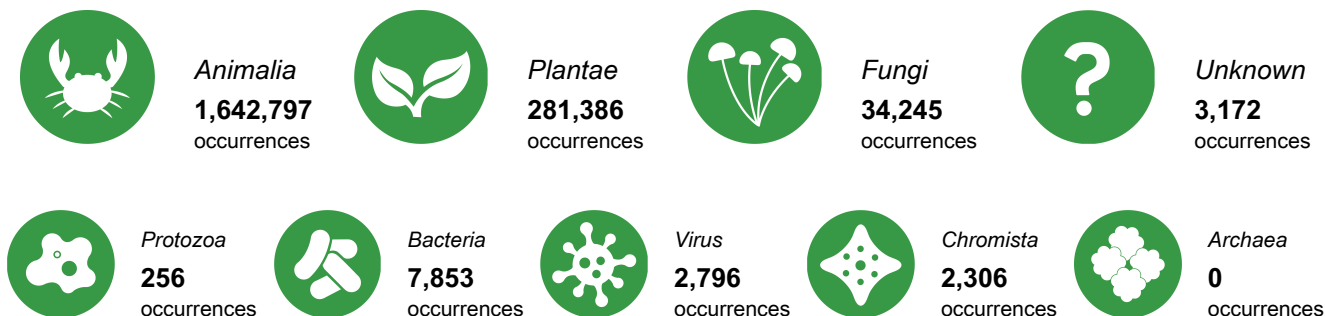
## Hungary

This report provides a series of summary charts, statistics and other details about the mobilization and use of open-access species data through the GBIF network, relating to users and participating institutions in Hungary. These metrics show status at the time of report generation, unless otherwise noted. Taken together, the elements of this report can help guide and measure progress toward the information needs for biodiversity research, as well as for national commitments on biodiversity and sustainable development.

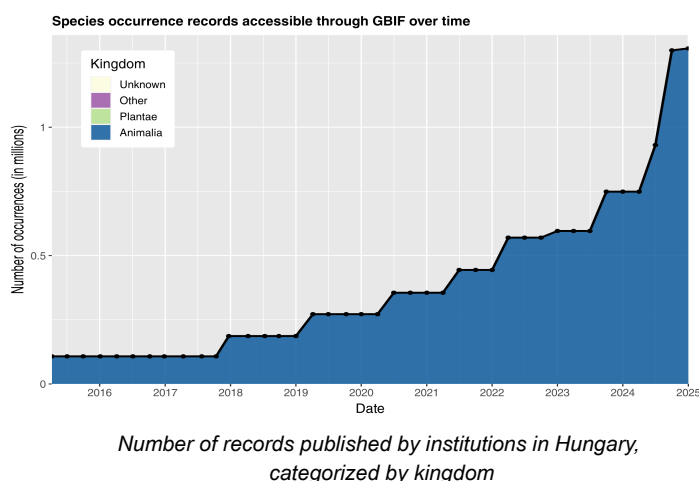
### ► Access and usage



### ► Data availability in Hungary



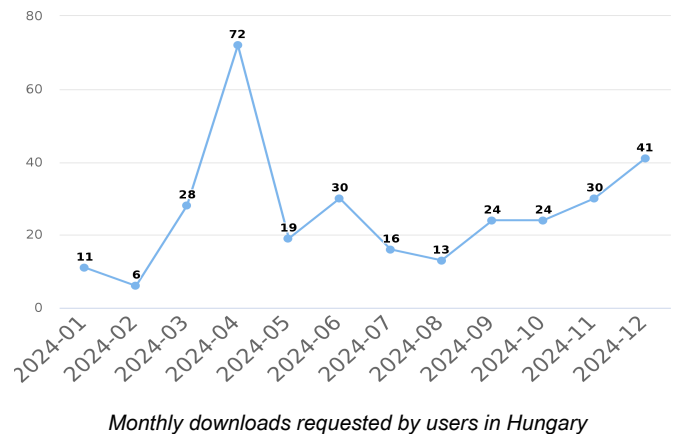
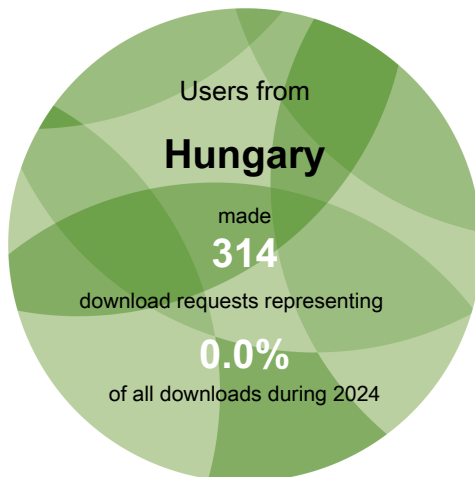
### ► Data mobilization





## Access and usage

### Data downloads on GBIF.org from users in Hungary



### Recent peer-reviewed articles using GBIF-mediated data by co-authors based in Hungary

The GBIF Secretariat maintains and reports on an ongoing literature tracking programme, giving priority to substantive uses of GBIF-mediated data in peer-reviewed literature while identifying the countries or areas of the authors' institutional affiliations. The citations below represent the five most recent journal articles with at least one co-author from Hungary.

Those interested in assisting the Secretariat in identifying additional peer-reviewed uses of GBIF-mediated data may forward relevant citations to [comms@gbif.org](mailto:comms@gbif.org).

Balogh, Tóth. (2024) First occurrence of *Hypena lividalis* (Hübner, 1796) in Hungary (Lepidoptera: Erebidae). *Folia Entomologica Hungarica*.  
<https://doi.org/10.17112/foiaenthung.2024.85.147>

Dettner, Kovács, Rewicz *et al.* (2024) Age-dependent variation of aedeagal morphology in *Agabus uliginosus* and the status of *A. lotti* (Coleoptera, Dytiscidae). *ZooKeys*.  
<https://doi.org/10.3897/zookeys.1212.130039>

Huang, Zhang, Bede-Fazekas *et al.* (2024) Cross-validation matters in species distribution models: a case study with goatfish species. *Ecography*.  
<https://doi.org/10.1111/ecog.07354>

Kóbor, Brhane. (2024) Past, present and future of the two-spotted stink bug (*Perillus bioculatus*) in Europe revealed by citizen science. *Scientific Reports*.  
<https://doi.org/10.1038/s41598-024-72501-0>

Ciceu, Bălăcenoiu, de Groot *et al.* (2024) The ongoing range expansion of the invasive oak lace bug across Europe: current occurrence and potential distribution under climate change. *Science of The Total Environment*.  
<https://doi.org/10.1016/j.scitotenv.2024.174950>

See all research from this country or area  
[gbif.org/country/HU/publications/from](https://gbif.org/country/HU/publications/from)



## Data availability

### Total data available for selected taxonomic groups in Hungary



**Mammals**  
**8,631**  
occurrences



**Birds**  
**996,328**  
occurrences



**Bony fish**  
**840**  
occurrences



**Amphibians**  
**3,277**  
occurrences



**Insects**  
**577,104**  
occurrences



**Reptiles**  
**4,569**  
occurrences



**Molluscs**  
**19,311**  
occurrences



**Arachnids**  
**17,533**  
occurrences



**Flowering plants**  
**268,330**  
occurrences



**Ferns**  
**3,351**  
occurrences



**Gymnosperms**  
**1,666**  
occurrences



**Mosses**  
**5,101**  
occurrences



**Sac fungi**  
**16,321**  
occurrences



**Basidiomycota**  
**17,057**  
occurrences

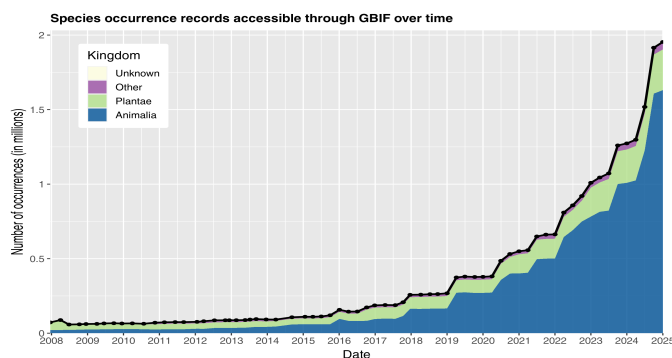
Mammals = Class *Mammalia*  
Birds = Class *Aves*  
Bony fish = Superclass  
*Osteichthyes* p.p.  
Amphibians = Class *Amphibia*

Insects = Class *Insecta*  
Reptiles = Class *Testudines*,  
*Sphenodontia*, *Squamata* &  
*Crocodylia*  
Molluscs = Phylum *Mollusca*

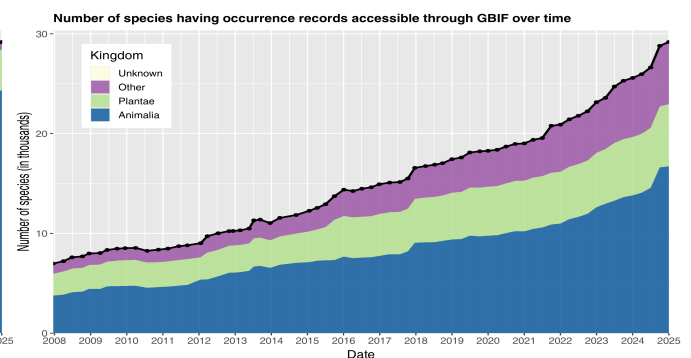
Arachnids = Class *Arachnida*  
Flowering plants = Phylum  
*Magnoliophyta*  
Gymnosperms = Superclass  
*Gymnospermae*

Ferns = Phylum *Pteridophyta*  
Mosses = Phylum *Bryophyta*  
Sac fungi = Phylum *Ascomycota*  
Basidiomycota = Phylum  
*Basidiomycota*

### Change over time in records about biodiversity in Hungary



Occurrence records available about species occurring in Hungary



Species for which at least one occurrence record is available in Hungary

#### WHY MIGHT THE AMOUNT OF MOBILIZED DATA DECREASE?

Datasets are sometimes removed by publishers, but more often decreases in the number of records are due to the removal of duplicate records and datasets.

**SPECIES COUNTS** represent the number of binomial scientific names for which GBIF has received data records, organized as far as possible using synonyms recorded in key databases like the Catalogue of Life



Most recent datasets from publishers in Hungary

Macroinvertebrate records from Central European streams. *Published by Department of Hydrobiology, University of Pécs*  
<https://doi.org/10.15468/qen9u7>

Chironomidae from Central Europe. *Published by Department of Hydrobiology, University of Pécs*  
<https://doi.org/10.15468/vcxvf4>

izeltlabuak.hu observations validated to species level. *Published by izeltlabuak.hu*  
<https://doi.org/10.15468/rsmdu9>

Kentish plover captures, Hungary. *Published by OpenBioMaps*  
<https://doi.org/10.15468/vk2r7w>

AMI-KMNP dataset: records of aquatic macroinvertebrates from SE Hungary. *Published by Department of Hydrobiology, University of Pécs*  
<https://doi.org/10.15468/b3ptrm>

Database of invertebrates collected in Mongolia. *Published by Hungarian Natural History Museum*  
<https://doi.org/10.15468/4zq313>

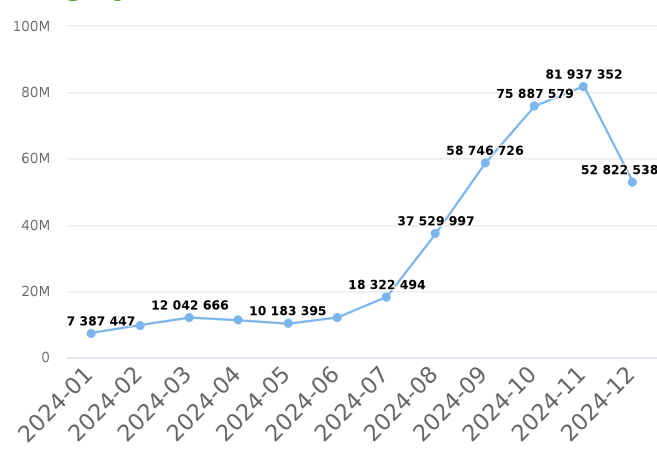
See all datasets from this country or area: [gbif.org/dataset/search?publishing\\_country=HU](https://gbif.org/dataset/search?publishing_country=HU)

Newest publishers from Hungary

- izeltlabuak.hu
- OpenBioMaps
- Department of Hydrobiology, University of Pécs
- Hungarian Natural History Museum

See all publishers from this country or area  
[gbif.org/publisher/search?country=HU](https://gbif.org/publisher/search?country=HU)

Occurrence records downloaded from GBIF.org, published by institutions in Hungary

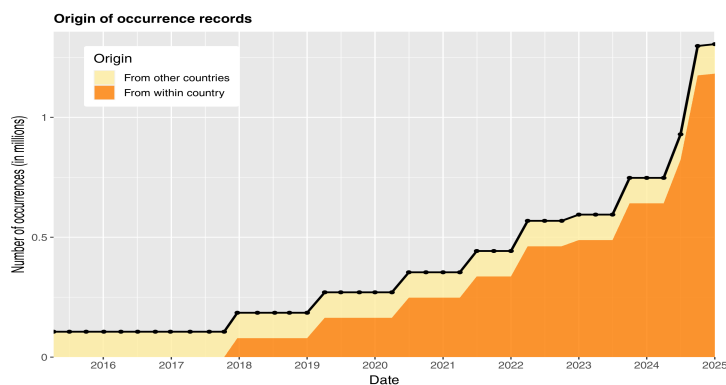


Number of occurrence records downloaded via GBIF.org published by institutions in Hungary

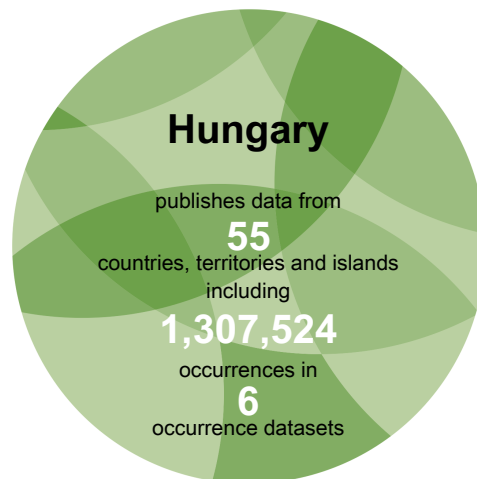


## Data mobilization

### Data sharing with country or area of origin by national institutions in Hungary



Data sharing with country or area of origin



The chart above shows the number of records shared over time by publishers within Hungary, with separate colours for records about species occurring within undefined and those occurring elsewhere.

### Top data contributors about biodiversity in Hungary

Rank	Country or area	No. of occurrences
1	Hungary	1,183,103
2	United States of America	247,171
3	Netherlands	147,309
4	France	89,022
5	Estonia	65,103
6	Austria	53,624
7	Germany	32,778
8	International organization or unknown country	29,219
9	Colombia	27,269
10	United Kingdom	24,833

Table 1. Ranking of countries or areas contributing data about Hungary

### Top datasets contributing data about Hungary

EOD – eBird Observation Dataset. 797,244 occurrences in Hungary. (Last updated 27 Sep 2024)

izeltlabuak.hu observations validated to species level. 356,444 occurrences in Hungary. (Last updated 1 Jan 2025)

iNaturalist Research-grade Observations. 203,126 occurrences in Hungary. (Last updated 30 Dec 2024)

Observation.org, Nature data from around the World. 112,338 occurrences in Hungary. (Last updated 3 Jan 2025)

PI@ntNet automatically identified occurrences. 74,237 occurrences in Hungary. (Last updated 8 Feb 2023)

See all contributing countries and areas or datasets: [gbif.org/country/HU/about](https://gbif.org/country/HU/about)